⚠ CAUTION ⚠

Before starting the engine and moving the tractor, follow the instructions noted below:

- *Do not start or operate the tractor in an enclosed area.*
- *Before starting the engine, check that all controls are in neutral.*
- *All controls must only be operated from the driving position.*
- *Stop the engine before carrying out any service or maintenance operations on the tractor.*
- *Use the steps provided for entering and leaving the tractor.*
- *Keep the guards properly fitted.*
- *When driving on roads, indicate all intentions to stop, turn or slow down.*
- *Use the appropriate warning devices to signal the presence of a slow–moving vehicle.*

STARTING THE ENGINE

A. If the tractor has not been used for some time, or is started up for the first time in low outside temperature conditions, operate the fuel pump starting lever approximately twenty times and allow the engine to run for 5 ÷ 10 seconds with the injection pump in the «stop» position.

B. Press down the clutch pedal, place the shuttle control lever in neutral to close the starting safety device switch.

C. Move the throttle lever to approximately the half–way position.

D. Turn the starter key to position **C** (fig. 1, page 3–3). Release the key as soon as the engine starts.

STARTING AND STOPPING

STARTING IN LOW OUTSIDE TEMPERATURE CONDITIONS

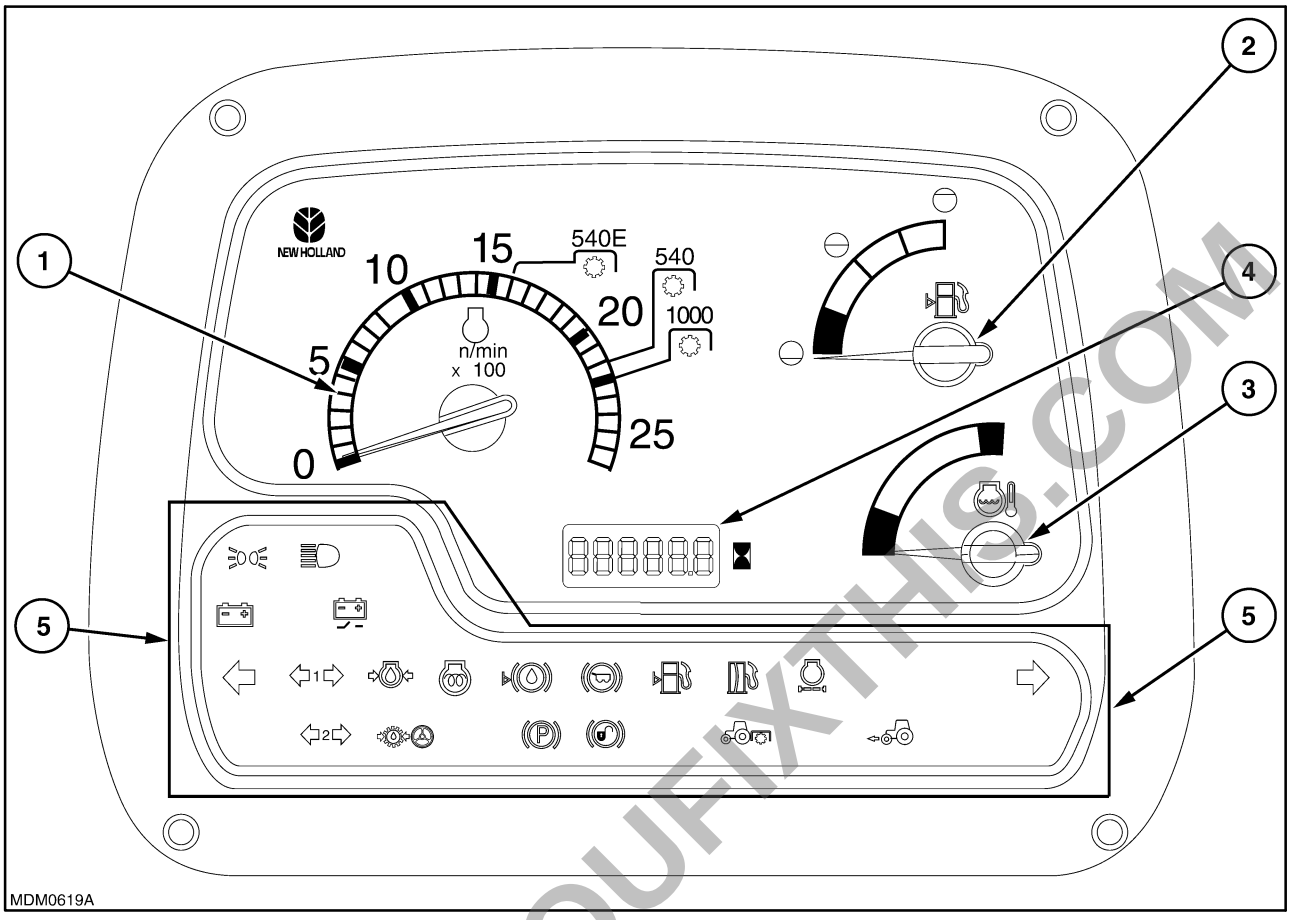
⚠ WARNING ⚠

When starting the engine with low outside temperatures and when the engine is cold, proceed as follows:

- *to avoid running down the battery, any single engine starting attempt should not last longer than 15 seconds; if, however, the engine fires but does not start, continue the attempt up to a maximum of 30 seconds.*
- *wait for at least one minute between each attempt to start the engine;*
- *to avoid excessively running down the battery, do not make more than six attempts to start the engine.*

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1

CONTROL PANEL

1. Tachometer.
2. Fuel gauge.
3. Engine coolant temperature indicator.
4. Hours worked counter.
5. LED indicators to signal machine service status.

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LUBRICATION AND MAINTENANCE TABLE

The operation numbers in the second column reference the operations and illustrations on the following pages of this section.

Hours of work	Operation Number	Maintenance operations	Efficiency check	Fill–up level	Cleaning	Greasing	Adjust	Renew	Page
Flexible maintenance	1.	Radiator expansion tank		X					4–11
	2.	Tractor lights	X						4–11
	3.	Transmission handbrake	X	X					4–12
	4.	Hydraulic control valve oil recovery cup			X				4–12
	5.	Engine clutch					X		4–12
	6.	Radiator			X				4–13
	7.	Oil cooler			X				4–13
	8.	Braking system					X		4–14
	9.	Tyre Pressure	X						4–15
	10.	Wheel nut torque	X						4–15
With warning light ON	11.	Outlet valve, dry air filter			X				4–16
	12.	Main cartridge, dry air filter			X				4–17
	13.	Brake fluid reservoir	X	X					4–18
	14.	Fuel filter (condensation drain)			X				4–19
Every 10 hours	15.	Engine oil sump	X	X					4–20
Every 50 hours	16.	Rear wheel hubs				X			4–21
	17.	Lift and linkage				X			4–21
	18.	Front axle pivots 4WD				X			4–21
	19.	2WD steering cylinders (model T4020, T4030 and T4040 only)				X			4–22

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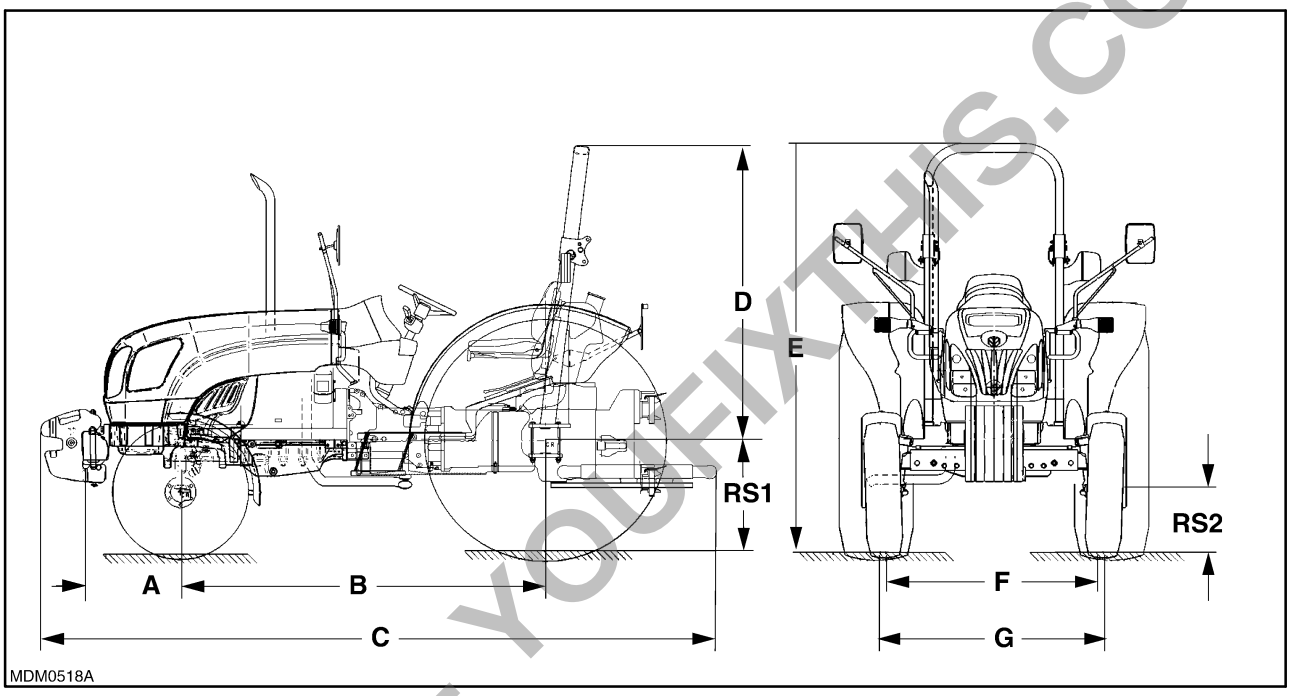
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SECTION 8
SPECIFICATIONS AND DATA

The data on the following pages is provided for your information and guidance. For further details concerning your tractor, contact your dealer.

DIMENSIONS MODEL T4020, T4030, T4040 2 DRIVING WHEELS

Tyre combinations: Front **7.50–16** Rear **380/70R28**



1

RS1 = (tyre radius under rear load)

RS2 = (tyre radius under front load)

A. ..... in. (mm) 23.11 (587)

B.

– models T4020 and T4030 ..... in. (mm) 83.26 (2115)

– models T4040 ..... in. (mm) 86.69 (2202)

C.

– models T4020 and T4030 ..... in. (mm) 147.12 (3737)

– models T4040 ..... in. (mm) 150.55 (3824)

D. ..... in. (mm) 70.11 (1781)

E. ..... in. (mm) 94.13 (2391)

F. (front track setting) ..... in. (mm) . 54.48 to 78.11 (1384 to 1984)

G. (rear track setting) ..... in. (mm) . 52.12 to 75.98 (1324 to 1930)

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TROUBLESHOOTING, CAUSES AND SOLUTIONS

Fault	POSSIBLE CAUSE	SOLUTION
1	The audible warning comes on with the related icon on the display when the operator leaves the driving seat without engaging the handbrake or with the seat safety switch broken.	Engage the handbrake. The signal must stop when the brake is disengaged.
2	An audible warning is activated with the related icon on the display if the operator starts the tractor automatically with the handbrake engaged.	Disengage the handbrake. The signal must stop when the brake is disengaged.
3	The audible warning and indicator warn of an incorrect or dangerous manoeuvre.	Move the Power Shuttle control lever into the neutral position.
4	The signal displayed shows that the transmission oil has exceeded its normal working temperature.	Slow the engine down to idling and let it idle for 2/3 minutes. Switch off the engine and check that the cooler is not clogged. Clean it if necessary as described in section 4. **ATTENTION: If the problem is not resolved, do not use the tractor and call your local dealer.**
5	The audible warning comes on with the related icon on the display with the engine running when the operator leaves the driving seat without disengaging the PTO control lever or with the seat safety switch broken.	Move the rear PTO control lever into the neutral position before leaving the driving seat.
6	The audible warning comes on with the related icon on the display with the engine running when the operator leaves the driving seat without disengaging the PTO control lever or with the seat safety switch broken.	Move the front PTO control lever into the neutral position before leaving the driving seat.
7	The audible warning comes on with the related icon on the display when the battery charge is low.	Recharge/renew the battery.
8	The audible warning comes on with the related icon on the display when the engine coolant temperature is too high.	Stop the engine immediately and let it cool down. Make sure the radiator is clean and the fluid is at the right level (see page 4–11 and 4–12 for maintenance). **ATTENTION: If the problem is not resolved, do not use the tractor and call your local dealer.**

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FUSES – Fig. 75

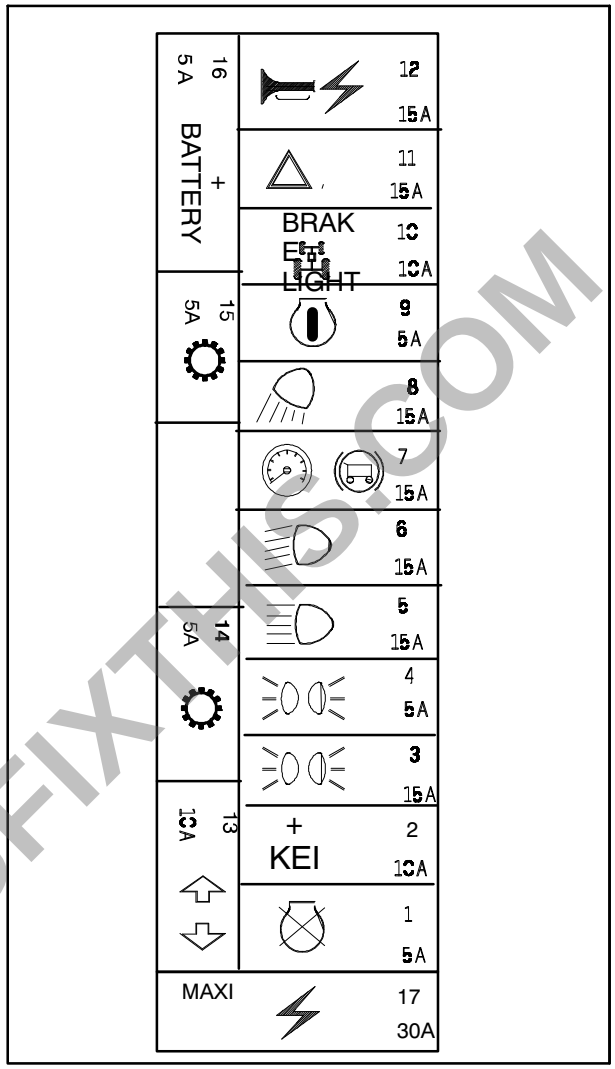
VERSION 1.

Mechanical two– and four–wheel drive models fitted for:

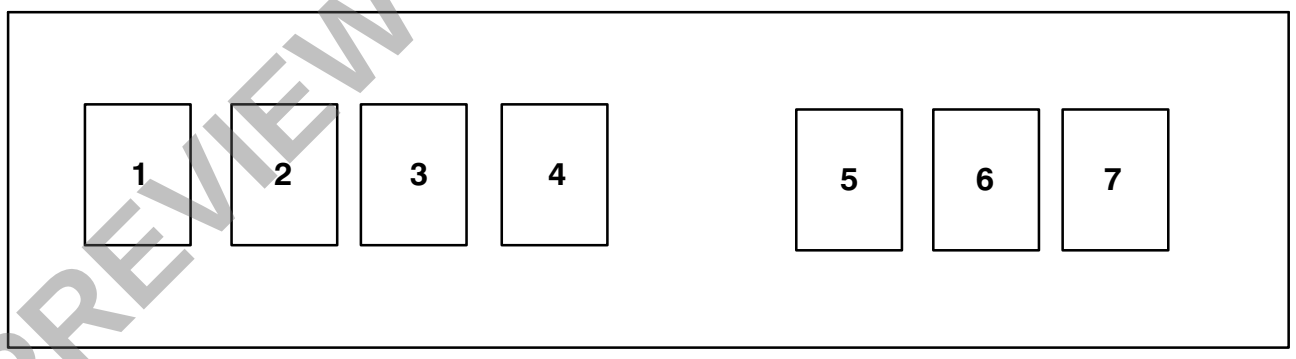
- **Swivel position lights.**
- **8A, 30A and 7 pole power sockets.**
- **ITALIA trailer brake.**
- **Electrohydraulic 4WD.**
- **GRID–HEATER.**

⚠ ATTENTION ⚠

If electrical system relays need to be changed, check that correct spare parts are used and that they are fitted in the correct positions. The use of structurally or functionally different relays – even if interchangeable – could seriously compromise tractor control with dangerous results.



75



76

EQUIPMENT LAYOUT – Fig. 76

Left–hand side

1. Brake lights circuit relay.
2. ITALIA trailer brake circuit relay.
3. ITALIA trailer brake circuit relay.
4. ITALIA trailer brake circuit relay.

Right–hand side

5. Flasher.
6. Engine starter circuit relay.
7. 30A Maxi–fuse.

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CAUTION

When starting the engine after extended periods of non–use, avoid using the hydraulic system immediately. All the moving parts need to be lubricated properly before they are subjected to full load.

Especially when the external temperature approaches 32 °F (0 °C), run the engine at 1300 ÷ 1500 rpm for approximately 5 minutes in order to heat the oil in the rear transmission to working temperature.

CAUTION

Before accelerating, let the engine idle at 1000 rpm for 30 seconds to ensure that the turbocharger is lubricated.

CAUTION

If one of the warning lights illuminates to signal a fault, check and repair the faulty part.
If the warning light continues to signal a fault, have the machine checked by your dealer.

CAUTION

With outside temperatures below 32 °F (0 °C), in order to prevent separation of the paraffin components in the diesel fuel, leading to a reduction in fluidity and subsequent fuel supply problems (especially when starting the engine), ***mix the diesel fuel with the antifreeze*** *(or a similar product) in the proportions described on the container.*

The antifreeze must be mixed with the diesel fuel before there is any sign of paraffin separation; adding it later will have no effect on an engine if the cold has already caused the engine to stop running or prevent it being started.

Put the antifreeze in the tank first, followed by the diesel fuel.

The antifreeze *will ensure that there is an optimum fuel supply to the engine without reducing performance, even where the external temperature drops below –4 °F (–20 °C).*

STARTING THE TRACTOR

– Sit down correctly in the driving seat.

– Press the transmission clutch pedal and move the gear lever and range lever to the required position.

– Accelerate the engine.

– Lower the handbrake lever.

– For tractors with mechanical transmissions, engage the clutch by slowly releasing the relative pedal.

– For tractors with hydraulic transmissions, lift the Power Shuttle lever, moving it slowly in the required travel direction (this operation can only be carried out when seated in the driving position).

STOPPING THE TRACTOR

– Reduce engine speed.

– Press the transmission clutch pedal and apply the brakes.

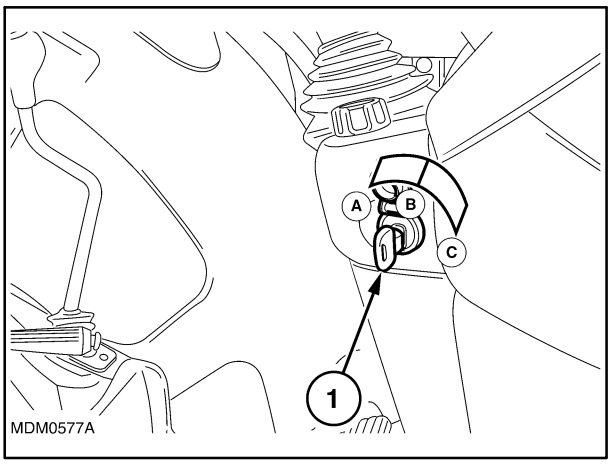
With the tractor stationary, shift the gear and range levers into neutral, release the clutch pedal and apply the handbrake.

STOPPING THE ENGINE

CAUTION

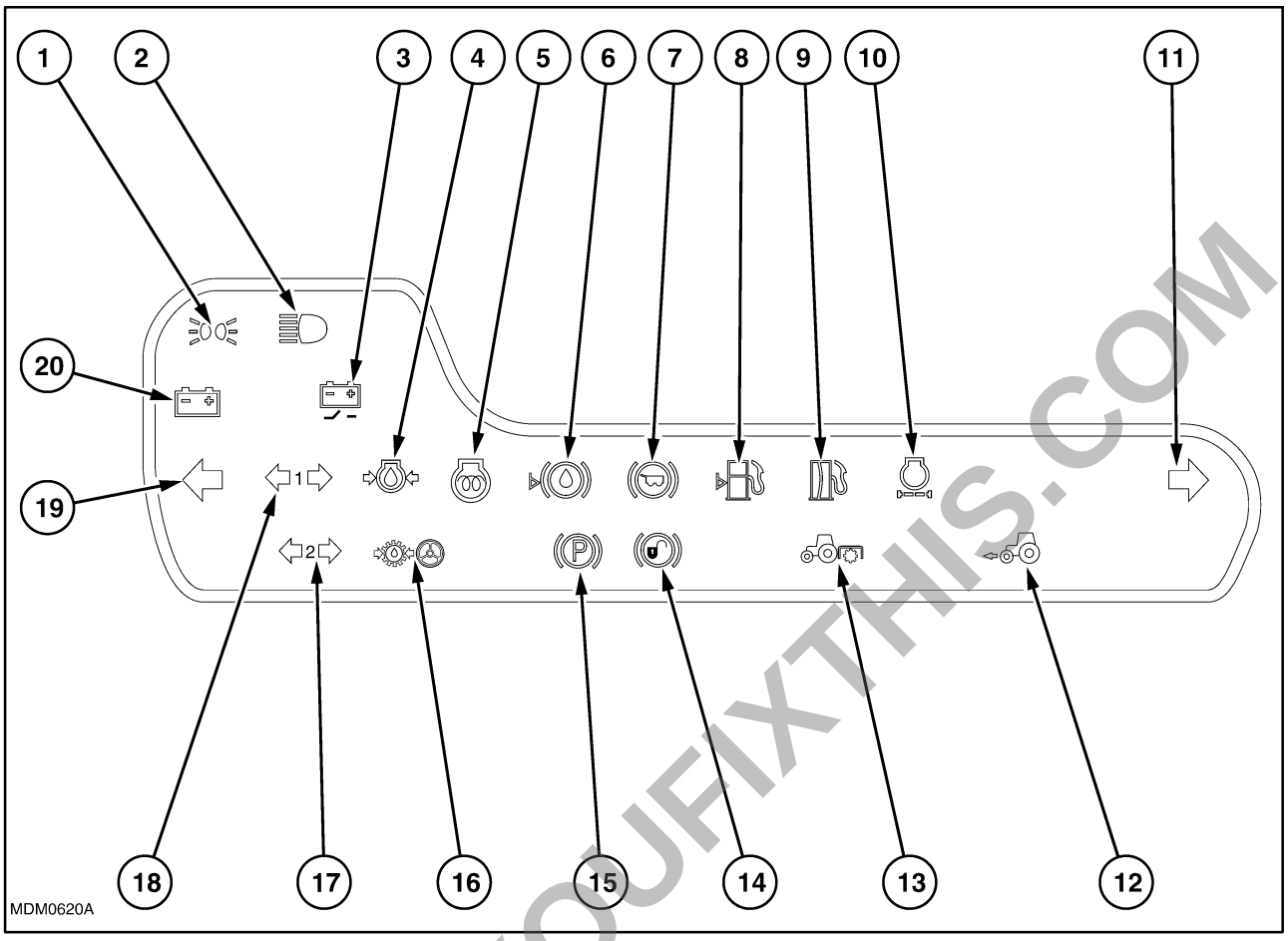
Before stopping the engine, allow it to idle at 1000 rpm for at least 3 minutes. This allows the turbocharger and manifold to cool, preventing deformation of the components.

– Turn the starter key to the **STOP** position (**A** fig. 3).



3

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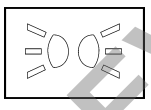


2

OPERATION INDICATORS

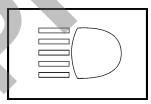
INDICATOR AND WARNING LIGHTS

The indicator lights on the control panel inform you of the operational condition of the machine. There are 26 indicator lights of various colours. Some of them signal trouble, act promptly when they light up in order to resolve the problem and prevent serious problems with your machine.



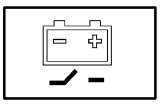
1. **Side lights** (green)

Lights up when the sidelights are switched on.



2. **Full–beam headlights** (blue)

The light comes on when the headlights are on full beam.



3. **Battery cut–off** (amber) (variant not for all markets, fitted by the dealer.

It stays on for 30 seconds with the ignition key on STOP unless the battery is cut off. It switches off within 30 second when the battery is cut off by pressing the specific button.

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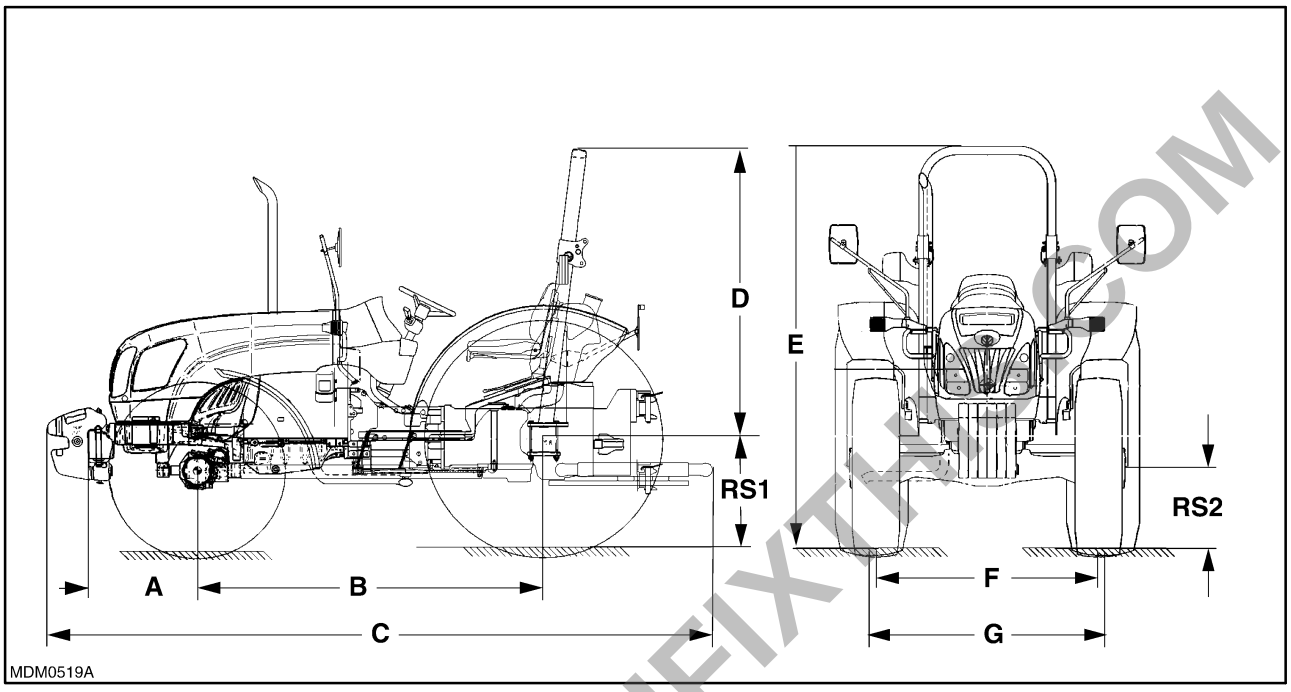
Hours of work	Operation Number	Maintenance operations	Efficiency check	Fill–up level	Cleaning	Greasing	Adjust	Renew	Page
Every 50 hours	20.	Front stub axles: right and left hand sides – 2WD (model T4020, T4030 and T4040 only)				X			4–22
	21.	2WD front axle pivot (model T4020, T4030 and T4040 only)				X			4–22
Every 100 hours	22.	Transmission oil cooler			X				4–23
	23.	Intercooler			X				4–23
Every 300 hours	24.	DUAL COMMAND (2 SPEED POWER SHIFT) / POWER–SHUTTLE oil filter						X	4–24
	25.	Transmission oil filter and services						X	4–24
	26.	Air filter (external cartridge)			X				4–25
	27.	Alternator belt					X		4–25
	28.	Transmission and lift	X	X					4–26
	29.	4WD front axle housing	X	X					4–26
	30.	Front axle lateral final drives, 4WD	X	X					4–26
	31.	2WD front wheels (model T4020, T4030 and T4040 only)				X			4–27
	32.	4WD stub axles				X			4–27
	33.	German tow hook				X			4–27
	34.	Hydraulically operated towing hitch				X			4–28
	35.	Battery	X	X					4–28
Every 500 hours (mod. T4020 and T4030)	36.	Drain oil and renew filter						X	
	37.	Fuel Filter						X	4–30
	38.	Fuel pre–filter			X				4–32
Every 600 hours	36.	Drain oil and renew filter						X	
	37.	Fuel Filter						X	4–30
	38.	Fuel pre–filter			X				4–32

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DIMENSIONS MODEL 4 DRIVING WHEELS

Tyre combinations: Front **320/70R–20** Rear **380/70R–28**



2

RS1 = (tyre radius under rear load)

RS2 = (tyre radius under front load)

A. ..... mm 26.14 (664)

B.

– models T4020 and T4030 ..... mm 80.23 (2038)

– models T4040 and T4050 ..... mm 83.66 (2125)

C.

– models T4020 and T4030 ..... mm 157.16 (3992)

– models T4040 and T4050 ..... mm 160.59 (4079)

D. ..... mm 70.11 (1781)

E. ..... mm 94.13 (2391)

F. (front track setting) ..... mm ..... 61.96 to 71.10 (1574 to 1806)

G. (rear track setting) ..... mm ..... 52.12 to 75.98 (1324 to 1930)

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TROUBLESHOOTING, CAUSES AND SOLUTIONS

Fault	POSSIBLE CAUSE	SOLUTION
9	The audible warning comes on with the related icon on the display and the instrument indicator when the engine lubrication oil pressure is too low.	Stop the tractor and call your dealer **ATTENTION: If the signal does not stop, do not use the tractor and call your local dealer.**
10	The audible warning comes on with the related icon on the display when the power steering oil pressure is too low.	Stop the tractor and call your dealer **ATTENTION: If the signal does not stop, do not use the tractor and call your local dealer.Under these conditions the steering could lock.**
11	Potential problems in the electronic control unit management network.	**ATTENTION: Call your local dealer immediately.**
12	An audible warning is activated with the related icon on the display with the tractor running faster than 8 km/h and the handbrake engaged.	The signal must stop when the brake is disengaged, or when the ground speed falls under 8 km/h.
13	The related icon is shown on the display when the engine air cleaner is clogged.	Clean the filtering cartridges as described in section 4.
14	The signal comes on: – with the engine off and the ignition key (ON) on the first click; – a few seconds after starting the engine if the alternator fails to charge the battery.	Have your dealer check the system.
15	The signal for the trouble is activated when the oil level falls under the minimum or with the level sensor broken.	Top up the brake fluid level and check the level sensor works properly as described in section 4. If the signal continues, have your dealer check the system.
16	If the maximum temperature limit is exceeded the warning signal is activated.	The signal stops when the temperature drops under the set limits. **ATTENTION:** Stop work, wait 2/3 minutes with the engine running, check the transmission oil level, top it up if necessary and renew the filter if necessary. Recommence work and if the signal does not stop call your local dealer.
17	This symbol comes on to indicate water in the fuel.	Clean the filter as described in section 4. Start the engine and if the signal stays on, have your dealer check the system.

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Fuse protection version 1 page 4–42		
Valves	Amp.	PROTECTED CIRCUITS
1	5	Engine cut–out electromagnet.
2	10	+ key, various supplies.
3	15	Left–hand side lights, 7–pin power socket.
4	5	RH tail/side lights, controls and instruments lighting.
5	15	Full beam headlights.
6	15	Dipped beam headlights.
7	15	Power take–off safety circuit, +instrument common, GRID–HEATER control unit and decanter.
8	15	Work lights, swivel position lights.
9	5	Starter safety circuit.
10	10	Electrohydraulic 4WD circuit.
11	15	Hazard lights, full beam flasher circuit.
12	15	Horn, 8A power socket.
13	10	Direction indicators circuit.
14	–	Not used.
15	–	Not used.
16	–	Not used.
Maxi–fuse		
17	30	ISO power socket

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